The Commonwealth of Massachusetts

Division of State Colleges

STATE COLLEGE
at
WORCESTER

Program of Continuing Studies

SPRING, 1968

BEGINNING JANUARY 22, 1968

FACULTY

CORNELIUS S. DONOGHUE, A.B., A.M., Director of Continuing Studies
JOHN F. EAGER, B.S., Ed.M., Associate Director of Continuing Studies
VIRGINIA BALL, B.S., Ed.M.
ELIZABETH R. BARLOW, B.S., Ed.M., Ed.D.
MARY G. BODANZA, A.B., A.M.
WALTER BUSAM, A.B., A.M. Ph.D.
HAROLD L. CHAPMAN, B.S., Ed.M., M.S.
JOHN D. COUGHLAN, A.B., Ed.M.
PAUL DAVIS, B.S., Ed.M.
MARY T. DOLPHIN, A.B., Ed.M.
E. HOWARD DONAHUE, B.S., Ed.M., Ph.D.
JOHN R. DOWLING, B.S., Ed.M.
FRANCIS T. DYSON, B.S., A.M.
ALFRED F. EDDY, B.S., A.M.
LEONARD F. FARREY, B.S., Ed.M.
ROBERT W. GOSS, B.S., Ed.M., Ed.D.
RUTH GRIFFITHS, B.S., M.A., Ed.D.
BERNARD J. GUARINI, A.B., A.M., A.M.
MARY T. HAYES, B.S., Ed.M., Ed.D.
PAUL A. HOLLE, A.B., M.S., Ph.D.
GEORGE T. JOSEPH, B.S., Ed.M.
WILLIAM D. JOYCE, A.B., M.S.
JOSEPH C. LONERGAN, B.S., Ed.M.
WILLIAM K. MASTERSON, A.B., A.M., M.S.
PAUL J. McCARRON, B.S., Ed.M.
MELVIN MERKEN, B.S., A.M., Ed.D.
KATHRYN R. O'DONNELL, B.S., A.M.
J. FRANCIS O'MARA, A.B., Ed.M., A.M., Ph.D.
PAUL F. O'NEIL, A.B., Ed.M.
ROBERT F. PERRY JR., A.B., A.M., Ph.D.
VINCENT PICCOLO, A.B., M.S.
JOSEPH W. RIORDAN, A.B., A.M., Ed.M., Ph.D.
THOMAS L. ROBERTS, A.B., M.S., Ph.D.
EVELYN ROBINSON, A.B., Ed.M., M.S.
JOSEPH P. SCANNELL, B.S., Ed.M.
JOSEPH A. SHEA, A.B., A.M., Ph.D.
RUTH V. SOMERS, A.B., A.M.
WILLIAM L. SULLIVAN, A.B., A.M., Ph.D.
G. FLINT TAYLOR, A.B., Ed.M., Ph.D.
PETER TRAINOR, B.S., Ed.M.
FRANCIS G. WALETT, B.S., A.M., Ph.D.
CHENG YUAN, A.B., A.M., A.M. (History)
FAITH T. ZEADEY, B.S., M.A.

GENERAL INFORMATION

The courses announced in this bulletin are offered by the Division of State Colleges in cooperation with the State College at Worcester. The Division of State Colleges reserves the right to cancel any course which does not have a minimum of 20 enrollments.

Both graduate and undergraduate courses are offered. Courses carrying undergraduate credit only are numbered in the 7- series; courses carrying both graduate and undergraduate credit are numbered in the 8- series; courses carrying graduate credit only are numbered in the 9- series.

REGISTRATION

Registration should be made on January 15th through 19th from 8:30 A.M. to 5:00 P.M. or on the day of the first class at the Worcester State College Graduate Office, Room S-112 Science-Laboratory Building.

To facilitate course selection, provisions have been made for registration by mail. The registration blank found on the last page should be forwarded to the college immediately. ALL FEES, REGISTRATION AND TUITION, MUST BE PAID AT THE TIME OF REGISTRATION. NO EXCEPTION TO THIS REGULATION WILL BE CONSIDERED. Fees must be paid by check or money order, made payable to the State College at Worcester. Cash will not be accepted. Assignment to classes which are or might be sectioned, or assignment to classes with maximum registrations, will be made in the order of completed registrations.

1. The Tuition fee for residents of Massachusetts is $18.00 per semester hour of credit; for non-residents $25.00 per semester hour of credit; for auditors, $11.00 per semester hour.
2. LATE REGISTRATION FEE—(Required for all, including veterans, after the first class meeting) $2.00.
3. Change of course fee—Payable for any change of registration after the first class meeting except when a course is cancelled, $2.00.
4. All students in each semester, including veterans must pay a $2.50 registration fee per semester when making out the course registration forms. UNDER NO CIRCUMSTANCES WILL ANY OF THE REGISTRATION FEES BE RETURNED.

VETERANS

Any resident of Massachusetts who has served in any branch of the armed services for at least 90 days, one of which must have been served either between September 16, 1940, and December 31, 1946, or between June 25, 1950 and January 31, 1955, and who has a discharge other than dishonorable may enroll without charge for instruction in any course here offered within the established limitation of 120 semester hours. To establish his eligibility the veteran must present his discharge (or photo-

static copy) or certificate of satisfactory service in the case of officers, together with proof of residence in advance of the opening date of class meeting.

All veterans who come under the new G.I. Bill must pay their tuition to the college. These veterans who are treated as non-veterans for registration purposes, are to be reimbursed by the Veterans' Administration. *NOTE: If this is your first enrollment, you must contact your Veterans' Administration Office for information on reimbursement. If you have been enrolled in courses at Worcester State College, you, upon completed registration here, will be reenrolled by the Office of Continuing Studies for the veterans' reimbursement.

CREDIT

Regulations and requirements for degree study may be obtained at the Office of the Director of Continuing Studies, State College at Worcester. It is urgently recommended that the guidance and advice of the Director and your faculty advisor in your Area of Concentration, wherein you must have 5 approved courses—effective September 1966—be sought and faithfully followed in planning a program of study. For teachers in service, a maximum of six semester hours of credit per semester may be credited toward a degree.

The GRADUATE RECORD EXAMINATION, REQUIRED for all graduate degree students will be conducted at Worcester State College on Saturday, January 20, and Saturday, April 27, 1968. The bulletin of information and application blanks can be secured at the Director's Office, Room S-112 Science and Laboratory Building, State College at Worcester. Registration through Educational Testing Service, Princeton, New Jersey should be completed two weeks prior to the test.

The degree of Master of Education is awarded at the State Colleges at Boston, Bridgewater, (including Hyannis Summer Session), Fitchburg, Framingham, North Adams, Salem, Westfield, and Worcester. Graduate courses in partial fulfillment of the requirements for this degree may be offered from time to time in the other State Colleges and the Massachusetts College of Art.

Students must park in the Student Parking Areas behind the Science-Laboratory Building or the side and rear of the Gymnasium-Library Building.

The Comprehensive Examination will be conducted on Friday March 22, 1968 at 4:00 P.M.

Post Ed.M. students must receive the honor grades of A or B for credit.

College graduates interested in our SS 1968 Secondary Teacher Preparation Workshop (July 1-August 9, 1968) should submit credentials for interview in early Spring.

SCHEDULE OF CLASSES

Courses carrying undergraduate credit only are numbered in the 7-series; courses carrying both undergraduate and graduate credit are numbered in the 8- series; and courses carrying graduate credit only are numbered in the 9- series. Assistance in selection and registering in all

courses is available in Room S-112 Science-Laboratory Building the W.S.C. Office, Phone Worcester 791-1405 or 756-5121.

ALL COURSES CARRY THREE SEMESTER HOURS OF CREDIT

No.	*Course Title*	*Instructor*	*Room*
MONDAYS, 4:30-7:15 P.M., BEGINNING JANUARY 22, 1968			
S8-56	The Teaching of Reading	Elizabeth R. Barlow	306
S8-61	Principles & Practices in Guidance	Paul J. McCarron	S-228
S8-446	Geography of South America	Robert F. Perry, Jr.	203
S8-775	Introduction to Philosophical Foundations of Education	William K. Masterson	S-217
S9-777	Advance Philosophy of Education, Section A	Joseph W. Riordan	S-211
S9-869	Case Studies in Chemistry & Physics	Melvin Merken	S-301
TUESDAYS, 4:30-7:15 P.M., BEGINNING JANUARY 23, 1968			
S9-51	Research in Education, Section A	Alfred F. Eddy	G-23
S8-75	Curriculum Workshop for Early Childhood Education	Virginia Ball	G-22
S8-76	Human Relations in the Classroom	Ruth Griffiths	S-126
S8-97	Computer Programming for the Educator	John R. Dowling	104
S8-578	Linear Algebra	Evelyn Robinson	S-125
S8-660	English History	Cheng Yuan	S-127
WEDNESDAYS, 4:30-7:15 P.M., BEGINNING JANUARY 24, 1968			
S9-69	Measurement of Intelligence	Ruth V. Somers	309
S9-78	Workshop in Adult Basic Education	Mary G. Bodanza	S-205
S8-261	Art for the Classroom Teacher	Mary T. Dolphin	Art Rm
S8-296	Athletic Injuries — Prevention & Care	Francis T. Dyson	G-24
S8-550	Modern Mathematics for Elementary School Teachers	Paul F. O'Neil	S-212
S9-753	Advance Psychology of Education, Section A	Joseph P. Scannell	S-217
S8-962	Elements of Molecular Biology	Thomas L. Roberts	S-132
THURSDAYS, 4:30-7:15 P.M., BEGINNING JANUARY 25, 1968			
S9-71	Techniques & Production of Instructional Materials	Paul Davis	110
S9-99	School Finance & Business Administration	Robert W. Goss	S-304
S8-152	Books & Related Materials for Children: Children's Literature	Mary T. Hayes	S-217
S8-186	The Modern Essay, An Emphases on Perception & Judgment	Kathryn R. O'Donnell	G-23
S9-657	The American Revolution	Francis G. Walett	315
S8-750	Educational Psychology	Joseph C. Lonergan	S-205

EVENING CLASSES

TUESDAYS, 7:00-9:45 P.M., BEGINNING JANUARY 23, 1968			
S9-66	Personnel Placement Services	G. Flint Taylor	S-228
S8-181	Selected English Novelists	William L. Sullivan	G-26
S8-271	Reference Sources and Methods, Part II	William D. Joyce	G-24
S8-480	Delinquency, Schools and Society	John D. Coughlan	S-226
S9-956	*Comparative Chordate Zoology	Paul A. Holle	S-132

*As a "laboratory" course, its scheduled time is 7:00 — 10:30 P.M.

WEDNESDAYS, 7:00-9:45 P.M., BEGINNING JANUARY 24, 1968

S9-51	Research in Education, Section B	Walter Busam	G-23
S9-59	Remedial Materials & Methods in Reading	Peter Trainor	S-126
S8-61	Principles & Practices in Guidance, Section B	Leonard F. Farrey	S-212
S8-272	Library Cataloging & Classification, Part 1	Vincent Piccolo	G-26
S8-861	Elementary Space Science	Harold L. Chapman	110
S8-472	Methods & Criteria of Social Analysis for Urban Education	Faith T. Zeadey	S-312

THURSDAYS, 7:00-9:45 P.M., BEGINNING JANUARY 25, 1968

S9-80	Evaluation & Analysis of Current Educational Problems	George T. Joseph	S-211
S9-84	Seminar in School Administration & Supervision	J. Francis O'Mara	S-125
S9-753	Advance Psychology of Education Section B	Joseph A. Shea	G-22
S9-760	Abnormal Psychology	Bernard J. Guarini	S-126
S9-777	Advance Philosophy of Education, Section B	E. Howard Donahue	S-127

COURSE DESCRIPTIONS

S8-56 The Teaching of Reading in Elementary Schools

This course is designed to cover the function of reading in the modern school program, effective procedures for developing the basic reading skills, practical techniques for improving pupil competence in the reading-study skills of content areas and methods of diagnosing and correcting reading deficiencies.

Elizabeth R. Barlow — Monday 4:30-7:15 p.m.
3 Semester hours — Beginning January 22, 1968

S8-61 Principles and Practices in Guidance (Guidance 1), Section A

This is an introductory course designed to provide the student with an understanding of the need, meaning, and scope of guidance services. The principles and practices involved in the following guidance areas will be considered: introduction and philosophy of guidance; understanding the individual and his needs; essential orientation activities for the student; collecting, recording, and evaluating data; interviewing and counseling; guidance through group activities; placement and follow-up activities; organization and evaluation of guidance. The emphasis of the course will be placed upon the role of the classroom teacher in the guidance program. Note: This course or its equivalent is a prerequisite for all advanced courses in guidance.

Paul J. McCarron — Monday 4:30-7:15 p.m.
3 Semester hours — Beginning January 22, 1968

S8-446 The Geography of South America

This course is a study of the physical and cultural backgrounds of the various countries of South America and of their influence on

the present day human utilization of the land. Emphasis is placed on the economic, political, and social developments and problems of the various countries. The ultimate purpose of the course is to increase the student's knowledge and understanding of the peoples of South America, their lands, and their problems.

Robert F. Perry, Jr. — Monday 4:30-7:15 p.m.
3 Semester hours — Beginning January 22, 1968

S8-775 Introduction to Philosophical Foundations of Education

Students in this course will make an intensive examination and critical evaluation of the major philosophies in Western culture which have given direction and meaning to educational theory and practice in the historical periods, including the Modern Era, in which they exerted major influence. The course is the equivalency to undergraduate credits in both Philosophy and Philosophy of Education.

William K. Masterson — Monday 4:30-7:15 p.m.
3 Semester hours — Beginning January 22, 1968

S9-777 Advanced Philosophy of Education, Section A

This course has the two-fold purpose of (1) studying and evaluating the contributions made by outstanding philosopher-educators both of the past but especially of the modern eras, and (2) analyzing the basic philosophical issues and problems in education and society and the alternatives posed by the different philosophical systems and assumptions. The student is expected to read and analyze the original contributions of the major educational philosophers in order to determine to what extent a synthesis of viewpoint may be achieved. Prerequisites: Undergraduate credits in both Philosophy and in Philosophy of Education or equivalency.

Joseph W. Riordan — Monday 4:30-7:15 p.m.
3 Semester hours — Beginning January 22, 1968

S9-869 Case Studies in Chemistry & Physics

This course will consider the unique contributions which the history and philosophy of science can make to the science curriculum. A variety of sources will be used, including case histories, original scientific papers, and biographies of scientists. Classical laboratory experiments will be performed in the laboratory. The potential of this approach for conveying to students a better understanding of science and scientists will be evaluated.

Melvin Merken — Monday 4:30-7:15 p.m.
3 Semester hours — Beginning January 22, 1968

S9-51 Research in Education, Section A

The course will stress the use of appropriate research methods in the selection and evaluation of data. It is designed to aid the

graduate student in the preparation of research reports. Major areas of emphasis will include the nature of and criteria for evaluating research, library techniques and resources, selection and documentation, organization and format of a report, and necessary statistical concepts and methods of research. The student will be expected to demonstrate his knowledge of these in a term research study. Prerequisite: A Bachelor's degree from an accredited college.

Alfred F. Eddy — Tuesday 4:30-7:15 p.m.
3 Semester hours — Beginning January 23, 1968

S8-75 Curriculum for Early Childhood Education

Attention in this course will be focused on the curriculum and the daily activities designed to enable young children to use their developmental powers to the fullest. Students will consider the ways and means by which the teacher creates an environment rich in learning opportunities, geared to the age-level characteristics of young children. Registration is limited to those interested in nursery and/or Kindergarten classes.

Virginia Ball — Tuesday 4:30-7:15 p.m.
3 Semester hours — Beginning January 23, 1968

S8-76 Human Relations in the Classroom

The purpose of this course is to develop an understanding of the factors involved in interpersonal relations and to recognize their importance in facilitating growth, promoting development, and attaining more mature and adequate interaction. Teacher and child, teacher and parents, teacher and fellow teachers, teacher and administrators will provide the major areas for study. Relationships in various ethnic, economic and cultural groups will be examined. The one-to-one relationship as well as individual to group interaction in teaching and counseling will be explored through readings, case studies, tapes and films.

Ruth Griffiths — Tuesday 4:30-7:15 p.m.
3 Semester hours — Beginning January 23, 1968

S8-97 Computer Programming for Educational Purposes

In this course, the student will learn to program a computer and apply this skill to programming administrative educational functions such as scheduling, report cards, purchasing, accounts receivable and payable, test analysis, student record keeping etc.

John R. Dowling — Tuesday 4:30-7:15 p.m.
3 Semester hours — Beginning January 23, 1968

S8-578 Linear Algebra

Students in this course will complete a comprehensive study of linear algebra relying on matrices and elementary operations as basic tools. The concepts for elementary operations are derived

from the solutions of systems of linear equations. These operations are used to evaluate determinants and to find bases of vector spaces. Previous study of algebra is necessary; however no previous course in abstract algebra is required.

Evelyn Robinson — Tuesday 4:30-7:15 p.m.
3 Semester hours — Beginning January 23, 1968

S8-660 English History

This course will deal with Britain's rise to world prominence in the seventeenth and eighteenth centuries with particular references to its relations both with its immediate neighbors in the British Isles and its overseas expansion during the Hanoverian and Georgian periods.

Cheng Yuan — Tuesday 4:30-7:15 p.m.
3 Semester hours — Beginning January 23, 1968

S9-69 Measurement of Intelligence

This course will be concerned with a study of the origins and uses of intelligence tests. Specific emphasis will be given to the 1960 revision of the Stanford-Binet test. Attention will be centered on administering, scoring, and interpreting the Stanford-Binet test. This course may be used to meet the requirements for a Binet Certificate. Students must utilize the "Binet" Kit.

Ruth V. Somers — Wednesday 4:30-7:15 p.m.
3 Semester hours — Beginning January 24, 1968

S9-78 Workshop in Adult Basic Education

Registrants in this workshop cosponsored by the Mass. Division of Civic Education, must present nominating letters from their Superintendents of Schools. Certificates awarded upon the successful completion of this highly specialized workshop are required of all teachers in Americanization and Adult Basic Education classes.

Mary G. Bodanza — Wednesday 4:30-7:15 p.m.
3 Semester hours — Beginning January 24, 1968

S8-261 Art for the Classroom Teacher

In this studio workshop students will enrich their experiences in dealing with the art materials, skills and techniques valuable to the classroom teacher. A combination lecture, informal discussion, and activity course will provide individual and group work in such areas as basic drawing, painting, lettering, and modeling. Exhibits, reproductions and slides will be used as enrichment material.

Mary T. Dolphin — Wednesday 4:30-7:15 p.m.
3 Semester hours — Beginning January 24, 1968

S8-296 Athletic Injuries — Prevention and Cure

Coaches who must perform training duties will review in this specialized course basic Anatomy, Physiology and Kinesiology. With the assistance of guest consultants and demonstrations students will familiarize themselves with the types of injuries to each major body area. The history, first aid treatment and taping, and rehabilitation will be discussed.

Francis T. Dyson — Wednesday 4:30-7:15 p.m.
3 Semester hours — Beginning January 24, 1968

S8-550 Modern Mathematics for Elementary School Teachers

This course will develop a working knowledge of the mathematical concepts basic to programs for elementary schools. Selected topics common to the various programs in modern mathematics will be treated in considerable detail to develop the background materials essential for successful teaching. Some of the topics to be covered are: basic concepts of sets, venn diagrams, arithmetic in bases other than ten, intuitive geometry, enequalities, natural numbers, integers rational numbers, real numbers, etc.

Paul F. O'Neil — Wednesday 4:30-7:15 p.m.
3 Semester hours — Beginning January 24, 1968

S8-472 Methods and Criteria of Social Analysis for Urban Education

Teachers and prospective teachers in our contemporary cities must relate the sociological realities "outside the classroom" with the teaching responsibility to its children. The purpose of this course is to provide them with the understandings and tools required to evaluate these relationships.

Faith T. Zeadey — Wednesday 4:30-7:15 p.m.
3 Semester hours — Beginning January 24, 1968

S9-753 Advanced Educational Psychology, Section A

In this course, class-members will study and evaluate the role of those environmental, mental and extra-mental forces which motivate all learners to utilize fully and effectively their capacities, aptitudes and attitudes. It includes a systematic analysis of the major schools of psychology with special attention focussed on the contemporary schools. Attention is given to the teachers' role in the learning process and special emphasis will be centered on the application of these principles to specific classroom situations.

Joseph P. Scannell — Wednesday 4:30-7:15 p.m.
3 Semester hours — Beginning January 24, 1968

S8-962 Elements of Molecular Biology

Students in this course will consider selected but interrelated bio-molecular principles. It will be directed towards those who have

had a minimum of a year's college-level biology and perhaps little or no biochemical training, but who wish to expand this background and/or concentrate in the biological sciences. A broad spectrum of biomolecular phenomena will be considered—including a variety of cycles (Kreb's citric acid, glycolytic, etc.), oxidation and reduction systems, electron cascades, intracellular and cell membrane transfer mechanisms, etc. In addition to lectures, demonstrations, and selected experiments, appropriate readings will be assigned and explored.

Thomas L. Roberts — Wednesday 4:30-7:15 p.m.
3 Semester hours — Beginning January 24, 1968

S9-71 Techniques & Production of Instructional Materials

This course is designed to enrich the teacher's classroom performance by developing techniques of visual presentation of subject materials. Pictorial presentations of instructional materials through non-artistic skills will be developed. The techniques apply at all levels of instruction, but the subject matter will be related to the specific interest of each teacher. Students will be expected to provide some of the materials consumed in producing the instructional materials.

Paul Davis — Thursday 4:30-7:15 p.m.
3 Semester hours — Beginning January 25, 1968

S9-99 School Finance & Business Administration

This course is intended for the specialist in school administration who is concerned primarily with the allocation of funds. The student will consider in depth the many factors involved in planning, construction, maintaining and administering the modern school plant. Prerequisite: 6 semester hours in School Administration including either Elementary School Administration or Secondary School Administration.

Robert W. Goss — Thursday 4:30-7:15 p.m.
3 Semester hours — Beginning January 25, 1968

S8-152 Books & Related Materials for Children (Language Arts, Part II)

This course is designed to broaden teachers' and school librarians acquaintance with literature suitable for elementary school children and to present effective procedures for fostering a love of good reading. Topics covered will include the classics, current fiction and non-fiction, the Newberry and Caldecott Awards, effective techniques of storytelling, interpretation of verse for children, illustrators of children's books, and sources of display materials.

Mary T. Hayes — Thursday 4:30-7:15 p.m.
3 Semester hours — Beginning January 25, 1968

S8-186 The Modern Essay, An Emphasis on Perception & Judgment

A study of a wide range of provocative essays of vigorous style and of modern attitudes will be made. Stress will be placed on excellence of form, cogency of ideas, and creativity of expression. Formal and informal types are to be included. Lectures, special reports, and panel discussions will deepen the student's appreciation of the Essay.

Kathryn R. O'Donnell — Thursday 4:30-7:15 p.m.
3 Semester hours — Beginning January 25, 1968

S9-657 The American Revolution

Students in this history course will make an intensive study of the age of the American Revolution, 1760-1789. Topics for study will include the Anglo-French struggle for empire, the new British colonial policy, causes of the Revolution, the struggle to establish federalism and the Constitution. Attention will be paid to different interpretations of the problems of the period and to original sources of evidence.

Francis G. Walett — Thursday 4:30-7:15 p.m.
3 Semester hours — Beginning January 25, 1968

S8-750 Educational Psychology

This course covers the theoretical aspects of psychology for the classroom teacher. It includes a systematic analysis of the major schools of psychology and a study of the effects of heredity and environment. Reading in the following areas will be required: results of research on growth and development, theories of intelligence, concepts in measurement and evaluation, individual differences in capacity and achievement, and learning theory. This course is the equivalency to undergraduate credits in General Psychology and Educational Psychology required for S9-752 or S9-753.

Joseph C. Lonergan — Thursday 4:30-7:15 p.m.
3 Semester hours — Beginning January 25, 1968

"7:00 P.M." OR EVENING COURSES

S9-66 Personnel & Placement Services — Guidance VI

This is a required course for personnel workers in the public schools. This course will introduce occupational, educational, and personnel career studies for appraisal and evaluation; statistical analysis of job needs and opportunities; use and function of school and out-of-school agencies, including group and individual interviewing techniques; local, state, and federal job studies and opportunities; clinical procedures; a full review of the most important aspects of personnel work on the elementary, secondary, and college levels. Setting up and appraising personnel programs on all levels will be stressed and studied.

G. Flint Taylor — Tuesday 7:30-9:45 p.m.
3 Semester hours — Beginning January 23, 1968

S8-181 Selected English Novelists

Students in this class will consider the origin and development of the English novel. Selected English novelists of 18th, 19th, and 20th centuries will be read and appraised in terms of the canons of literary excellence.

William L. Sullivan — Tuesday 7:00-9:45 p.m.
3 Semester hours — Beginning January 23, 1968

S8-271 Reference Sources and Methods, Part II

In this course librarians conclude their extended study of contemporary techniques of reference service. Using the college library in resolving practical reference problems, the student will be expected to demonstrate personal mastery of the content and use of the basic reference tools.

William D. Joyce — Tuesday 7:00-9:45 p.m.
3 Semester hours — Beginning January 23, 1968

S8-480 Delinquency, Schools and Society

The growing seriousness of juvenile delinquency in the modern community makes it mandatory that school adjustment counselors, especially familiarize themselves with this many-faceted problem. Class members will study this problem-area from the point of view that the schools play an increasingly important and centralized role in respect to the definition, prediction, and treatment of delinquency. The role of other public and private agencies will receive consideration, and the impact of "out-of-school" factors will be analyzed.

John D. Coughlan — Tuesday 7:00-9:45 p.m.
3 Semester hours — Beginning January 23, 1968

S9-956 Comparative Chordate Zoology

This course will review the taxonomy and phylogeny of protochordates and chordates, and concentrate on a systematic comparison of the morphology of representative chordates—to illustrate chordate evolution and to establish homology, analogy, and basic nomenclature. Representative specimens will be identified and classified—laboratory dissections will concentrate on shark and cat. One 2-hour lecture and one 1½-hour laboratory period per week.

Paul A. Holle — Tuesday 7:00-10:30 p.m.
3 Semester hours — Beginning January 23, 1968

S9-51 Research in Education, Section B

This course will stress the use of appropriate research methods in the selection and evaluation of data. It is designed to aid teachers in the preparation and understanding of educational research reports. Points of emphasis will include the nature of research, library techniques and resources, selection and delimitation of

problems, documentation, organization and format of a report, appraisal of educational literature, necessary statistical concepts and methods of research. The student will be expected to demonstrate his knowledge of these in a term paper.

Walter Busam — Wednesday 7:00-9:45 p.m.
3 Semester hours — Beginning January 24, 1968

S9-59 Remedial Materials and Methods in Reading

In this course which complements the Techniques of Diagnosing Reading Difficulties, emphasis will be placed on the organization and improvement of individual and small group remedial reading instruction in an average school situation. Prerequisite: Credits in F9-58, or approval by the instructor.

Peter Trainor — Wednesday 7:00-9:45 p.m.
3 Semester hours — Beginning January 24, 1968

S8-61 Principles & Practices in Guidance (Guidance 1), Section B

This is an introductory course designed to provide the student with an understanding of the need, meaning, and scope of guidance services. The principles and practices involved in the following guidance areas will be considered: introduction and philosophy of guidance; understanding the individual and his needs; essential orientation activities for the student; collecting, recording, and evaluating data; interviewing and counseling; evaluation of guidance. The emphasis of the course will be placed upon the role of the classroom teacher in the guidance program.

Leonard F. Farrey — Wednesday 7:00-9:45 p.m.
3 Semester hours — Beginning January 24, 1968

S8-272 Library Cataloging & Classification, Part I

This course covers the principles and practice of cataloging books using the Dewey Decimal system of subject classification, Sear's List of Subject Headings, and the ALA Cataloging Rules for Author and Title Entry. A brief introduction to over-all technical services for the small library and methods of indexing non-book materials commonly found in the modern school library will be included. Registration is limited.

Vincent Piccolo — Wednesday 7:00-9:45 p.m.
3 Semester hours — Beginning January 24, 1968

S8-861 Space Science for Elementary Teachers

The interrelated subject matter of such sciences as astronomy, geology, physics, chemistry, and biology will be studied in order that all may understand the principles and theories of the physical sciences that make possible man's travel into space. Such topics as the composition of the earth, the physical laws of space (laws of

Kepler, Newton, and others), rocket propulsion, space navigation, and human survival will be considered. Although S8-861 is structured principally for teachers in the elementary grades, registration is open to others, with the consent of the instructor.

Harold L. Chapman — Wednesday 7:00-9:45 p.m.
3 Semester hours — Beginning January 24, 1968

S9-80 Evaluation & Analysis of Current Educational Problems

The children being educated in our classrooms today will live half their lives during the 21st Century. Presently, our educational system is being revolutionalized with new curriculum approaches: educational television, team teaching, role playing techniques and new and creative approaches to design and development of school plant facilities. It will be the purpose of this course to disect and closely examine these and other new approaches in education.

George T. Joseph — Thursday 7:00-9:45 p.m.
3 Semester hours — Beginning January 25, 1968

S9-84 Seminar in Supervision & Administration

Graduate students in this seminar will study and analyze current problems and issues in elementary and secondary school administration. Consent of graduate adviser is necessary and registration is limited. Graduate credits in four other Administration and Supervision courses are prerequisite. Solutions to these problems will be sought through reading and research and the results will be presented to the class as a whole.

J. Francis O'Mara — Thursday 7:00-9:45 p.m.
3 Semester hours — Beginning January 25, 1968

S9-752 Advanced Educational Psychology, Section B

In this course, class-members will study and evaluate the role of those environmental, mental, and extra-mental forces which motivate all learners to utilize fully and effectively their capacities, aptitudes and attitudes. It includes a systematic analysis of the major schools of psychology with special attention focussed on the contemporary schools. Attention is given to the teachers' role in the learning process and special emphasis will be centered on the application of these principles to specific classroom situations. Prerequisite: 9 sem. hrs. undergraduate credit in General Psychology and Educational Psychology or their equivalency.

Joseph A. Shea — Thursday 7:00-9-45 p.m.
3 Semester hours — Beginning January 25, 1968

S9-760 Abnormal Psychology

Registration in S9-760, which may be taken toward Massachusetts certification as School Psychologist, is limited and has prerequisites. Six semester hours in both General and/or Educational

Psychology and Measurement constitute these required credits. Graduate students in this course will make a systematic study of behavior pathology with special reference to the psychopathology of physical illness, neuroses, psychoses, personality disorders, etc. of children, teen-agers and adults.

Bernard J. Guarini — Thursday 7:00-9:45 p.m.
3 Semester hours — Beginning January 25, 1968

S9-777 Advanced Philosophy of Education, Section B

This course has the two-fold purpose of (1) studying and evaluating the contributions made by outstanding philosopher-educators both of the past but especially of the modern eras, and (2) analyzing the basic philosophical issues and problems in education and society and the alternatives posed by the different philosophical systems and assumptions. The student is expected to read and analyze the original contributions of the major educational philosophers in order to determine to what extent a synthesis of viewpoint may be achieved.

E. Howard Donahue — Thursday 7:00-9:45 p.m.
3 Semester hours — Beginning January 25, 1968

PRELIMINARY REGISTRATION BLANK

Registration blanks should be forwarded immediately accompanied by a check or money order payable to the State College at Worcester. No class places will be reserved without the accompanying registration and tuition fees. Registration in person should be done in S-112, January 15 thru 19, 1968.

Clip and mail to:

MR. CORNELIUS S. DONOGHUE, Director
Program of Continuing Studies
State College at Worcester
Worcester, Massachusetts 01602

or

MR. JOHN F. EAGER, Associate Director
Program of Continuing Studies
State College at Worcester
Worcester, Massachusetts 01602

COURSE **CREDITS** (check)

.....B.S.E. ( ) M. Ed. ( ) OTHER ( )

.....B.S.E. ( ) M. Ed. ( ) OTHER ( )

.....B.S.E. ( ) M. Ed. ( ) OTHER ( )

Name .....

Street .....

City or Town .....

Veteran? .....